

RAW SEQUENCE LISTING

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Application Serial Number: 10/578,139
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DATE: 03/01/2007

PATENT APPLICATION: US/10/578,139

TIME: 14:45:41

Input Set : N:\efs\03_01_07\10578139_efs\2007022725200132PUS1ST25.txt

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3 <110> APPLICANT: MIYAGAWA , Shuji
4     MATSUNAMI , Katsuyoshi
6 <120> TITLE OF INVENTION: HLA-E CHIMERIC MOLECULE
8 <130> FILE REFERENCE: 2520-0132PUS1
10 <140> CURRENT APPLICATION NUMBER: US 10/578,139
11 <141> CURRENT FILING DATE: 2006-05-03
13 <160> NUMBER OF SEQ ID NOS: 92
15 <170> SOFTWARE: PatentIn version 3.4
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 21
19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
24     SP of HLA-E
27 <400> SEQUENCE: 1
29 Met Val Asp Gly Thr Leu Leu Leu Leu Leu Ser Glu Ala Leu Ala Leu
30 1           5           10           15
33 Thr Gln Thr Trp Ala
34           20
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 90
39 <212> TYPE: PRT
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42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
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44     a1 domain of HLA-E
47 <400> SEQUENCE: 2
49 Gly Ser His Ser Leu Lys Tyr Phe His Thr Ser Val Ser Arg Pro Gly
50 1           5           10           15
53 Arg Gly Glu Pro Arg Phe Ile Ser Val Gly Tyr Val Asp Asp Thr Gln
54           20           25           30
57 Phe Val Arg Phe Asp Asn Asp Ala Ala Ser Pro Arg Met Val Pro Arg
58           35           40           45
61 Ala Pro Trp Met Glu Gln Glu Gly Ser Glu Tyr Trp Asp Arg Glu Thr
62           50           55           60
65 Arg Ser Ala Arg Asp Thr Ala Gln Ile Phe Arg Val Asn Leu Arg Thr
66 65           70           75           80
69 Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala
70           85           90
73 <210> SEQ ID NO: 3
74 <211> LENGTH: 92

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75 <212> TYPE: PRT

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76 <213> ORGANISM: Artificial Sequence
 78 <220> FEATURE:
 79 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
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80 a2 domain of HLA-E
 83 <400> SEQUENCE: 3
 85 Gly Ser His Thr Leu Gln Trp Met His Gly Cys Glu Leu Gly Pro Asp
 86 1 5 10 15
 89 Arg Arg Phe Leu Arg Gly Tyr Glu Gln Phe Ala Tyr Asp Gly Lys Asp
 90 20 25 30
 93 Tyr Leu Thr Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Val Asp Thr
 94 35 40 45
 97 Ala Ala Gln Ile Ser Glu Gln Lys Ser Asn Asp Ala Ser Glu Ala Glu
 98 50 55 60
 101 His Gln Arg Ala Tyr Leu Glu Asp Thr Cys Val Glu Trp Leu His Lys
 102 65 70 75 80
 105 Tyr Leu Glu Lys Gly Lys Glu Thr Leu Leu His Leu
 106 85 90

109 <210> SEQ ID NO: 4

110 <211> LENGTH: 92

111 <212> TYPE: PRT

112 <213> ORGANISM: Artificial Sequence

114 <220> FEATURE:

115 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
 sequence

116 a3 domain of HLA-E
 119 <400> SEQUENCE: 4
 121 Glu Pro Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu
 122 1 5 10 15
 125 Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr
 126 20 25 30
 129 Leu Thr Trp Gln Gln Asp Gly Glu Gly His Thr Gln Asp Thr Glu Leu
 130 35 40 45
 133 Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala
 134 50 55 60
 137 Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln
 138 65 70 75 80
 141 His Glu Gly Leu Pro Glu Pro Val Thr Leu Arg Trp
 142 85 90

145 <210> SEQ ID NO: 5

146 <211> LENGTH: 63

147 <212> TYPE: PRT

148 <213> ORGANISM: Artificial Sequence

150 <220> FEATURE:

151 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
 sequence

152 Transmembrane domain of HLA-E
 155 <400> SEQUENCE: 5
 157 Lys Pro Ala Ser Gln Pro Thr Ile Pro Ile Val Gly Ile Ile Ala Gly
 158 1 5 10 15
 161 Leu Val Leu Leu Gly Ser Val Val Ser Gly Ala Val Val Ala Ala Val
 162 20 25 30

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165 Ile Trp Arg Lys Lys Ser Ser Gly Gly Lys Gly Gly Ser Tyr Ser Lys
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169 Ala Glu Trp Ser Asp Ser Ala Gln Gly Ser Glu Ser His Ser Leu
170           50                55                60
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175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
180           SP of HLA-E
183 <400> SEQUENCE: 6
184 atggtagatg gaaccctcct tttactctc tcggaggccc tggcccttac ccagacctgg      60
186 gcg                                           63
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190 <211> LENGTH: 270
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
196           a1 domain of HLA-E
199 <400> SEQUENCE: 7
200 ggctccact ccttgaagta ttccacact tccgtgtccc ggcccggccg cggggagccc      60
202 cgcttcact ctgtgggcta cgtggacgac acccagttcg tgcgcttcga caacgacgcc      120
204 gcgagtcgga ggatggtgcc gcgggcgcgc tggatggagc aggaggggtc agagtattgg      180
206 gaccgggaga cacggagcgc caggacacc gcacagattt tccgagtga tctgcggacg      240
208 ctgcgcggct actacaatca gagcgaggcc      270
211 <210> SEQ ID NO: 8
212 <211> LENGTH: 276
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
218           a2 domain of HLA-E
221 <400> SEQUENCE: 8
222 gggctctaca ccctgcagtg gatgcatggc tgcgagctgg ggcccgcag gcgcttcctc      60
224 cgcgggtatg aacagttcgc ctacgacggc aaggattatc tcaccctgaa tgaggacctg      120
226 cgctcctgga ccgcgggtgga cacggcggct cagatctccg agcaaaagtc aaatgatgcc      180
228 tctgaggcgg agcaccagag agcctacctg gaagacacat gcgtggagtg gctccacaaa      240
230 tactggaga aggggaagga gacgtgctt cacctg      276
233 <210> SEQ ID NO: 9
234 <211> LENGTH: 276
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
240           a3 domain of HLA-E
243 <400> SEQUENCE: 9
244 gagcccccaa agacacacgt gactcaccac cccatctctg accatgaggc caccctgagg      60

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246 tgctggggccc tgggcttcta ccctgcgagg atcacactga cctggcagca ggatggggag      120
248 ggccataccc aggacacgga gctcgtggag accaggcctg caggggatgg aaccttccag      180
250 aagtgggcag ctgtggtggt gccttctgga gaggagcaga gatacacgtg ccatgtgcag      240
252 catgaggggc taccgagcc cgtcaccctg agatgg      276
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256 <211> LENGTH: 192
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
262      Transmembrane domain of HLA-E
265 <400> SEQUENCE: 10
266 aagccggcctt cccagccac catcccatc gtgggcatca ttgctggcct ggttctcctt      60
268 ggatctgtgg tctctggagc tgtggttgct gctgtgatat ggaggaagaa gagctcaggt      120
270 ggaaaaggag ggagctactc taaggctgag tggagcgaca gtgccagggt gtctgagtct      180
272 cacagcttgt aa      192
275 <210> SEQ ID NO: 11
276 <211> LENGTH: 24
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
sequence
282      SP of HLA-G1
285 <400> SEQUENCE: 11
287 Met Val Val Met Ala Pro Arg Thr Leu Phe Leu Leu Leu Ser Gly Ala
288 1          5          10          15
291 Leu Thr Leu Thr Glu Thr Trp Ala
292      20
295 <210> SEQ ID NO: 12
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297 <212> TYPE: PRT
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300 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
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302      a1 domain of HLA-G1
305 <400> SEQUENCE: 12
307 Gly Ser His Ser Met Arg Tyr Phe Ser Ala Ala Val Ser Arg Pro Gly
308 1          5          10          15
311 Arg Gly Glu Pro Arg Phe Ile Ala Met Gly Tyr Val Asp Asp Thr Gln
312      20          25          30
315 Phe Val Arg Phe Asp Ser Asp Ser Ala Cys Pro Arg Met Glu Pro Arg
316      35          40          45
319 Ala Pro Trp Val Glu Gln Glu Gly Pro Glu Tyr Trp Glu Glu Glu Thr
320      50          55          60
323 Arg Asn Thr Lys Ala His Ala Gln Thr Asp Arg Met Asn Leu Gln Thr
324 65          70          75          80
327 Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala
328      85          90
331 <210> SEQ ID NO: 13

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332 <211> LENGTH: 92
 333 <212> TYPE: PRT
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 337 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
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 344 1 5 10 15
 347 Gly Arg Leu Leu Arg Gly Tyr Glu Gln Tyr Ala Tyr Asp Gly Lys Asp
 348 20 25 30
 351 Tyr Leu Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Thr
 352 35 40 45
 355 Ala Ala Gln Ile Ser Lys Arg Lys Cys Glu Ala Ala Asn Val Ala Glu
 356 50 55 60
 359 Gln Arg Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu His Arg
 360 65 70 75 80
 363 Tyr Leu Glu Asn Gly Lys Glu Met Leu Gln Arg Ala
 364 85 90

367 <210> SEQ ID NO: 14
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 369 <212> TYPE: PRT
 370 <213> ORGANISM: Artificial Sequence
 372 <220> FEATURE:
 373 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
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374 a3 domain of HLA-G1
 377 <400> SEQUENCE: 14
 379 Asp Pro Pro Lys Thr His Val Thr His His Pro Val Phe Asp Tyr Glu
 380 1 5 10 15
 383 Ala Thr Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Ile
 384 20 25 30
 387 Leu Thr Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Val Glu Leu
 388 35 40 45
 391 Val Glu Thr Arg Pro Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala
 392 50 55 60
 395 Val Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln
 396 65 70 75 80
 399 His Glu Gly Leu Pro Glu Pro Leu Met Leu Arg Trp
 400 85 90

403 <210> SEQ ID NO: 15
 404 <211> LENGTH: 40
 405 <212> TYPE: PRT
 406 <213> ORGANISM: Artificial Sequence
 408 <220> FEATURE:
 409 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic chimeric
 sequence

410 Transmembrane domain of HLA-G1
 413 <400> SEQUENCE: 15
 415 Lys Gln Ser Ser Leu Pro Thr Ile Pro Ile Met Gly Ile Val Ala Gly
 416 1 5 10 15

VERIFICATION SUMMARY

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